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☐ 1. Document ID: US 20040053636 A1

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File: PGPB

Mar 18, 2004

DOCUMENT-IDENTIFIER: US 20040053636 A1

TITLE: Portable communication terminal capable of communicating with information terminal and method of converting control protocol of the same between different kinds of networks

Abstract Paragraph:

In a portable communication terminal 10 which is capable of communicating with an information terminal 20 between different kinds of networks, the portable communication terminal 10 includes a plurality of radio communication sections 11, 21 which carry out data communications, respectively in respective service areas of the different kinds of networks, data communication control sections 12, 22 which control the data communications of a plurality of radio communication sections 11, 21 by their own first control commands of respective radio communication sections 11, 21, and a command conversion section 13 which carries out conversion of the first control commands used by the data communication control sections 12, 22 and a second control command used for a communication with the information terminal 20.

Summary of Invention Paragraph:

[0015] According to an aspect of the present invention, there is provided a portable communication terminal which is capable of communicating with an information terminal between different kinds of networks, comprising: a plurality of radio communication sections which carry out data communications, respectively in respective service areas of the different kinds of networks; a data communication control section which controls the data communications of a plurality of radio communication sections by their own first control commands of respective radio communication sections; and a command conversion section which carries out conversion of the first control commands used by the data communication control section and a second control command used for a communication with the information terminal.

Detail Description Paragraph:

[0103] As described above, according to the embodiment of the present invention, provided is a portable communication terminal which is capable of communicating with an information terminal between different kinds of networks comprising: a plurality of radio communication sections which carry out data communications, respectively in respective service areas of the different kinds of networks; a data communication control section which controls the data communications of a plurality of radio



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(54) **PORTABLE COMMUNICATION TERMINAL
CAPABLE OF COMMUNICATING WITH
INFORMATION TERMINAL AND METHOD
OF CONVERTING CONTROL PROTOCOL
OF THE SAME BETWEEN DIFFERENT
KINDS OF NETWORKS**

Publication Classification

(51) Int. Cl.⁷ **H04Q 7/24**

(52) U.S. Cl. **455/550.1; 370/338**

(57) **ABSTRACT**

(75) Inventor: **Kenji Oguma, Tokyo (JP)**

Correspondence Address:
**FOLEY AND LARDNER
SUITE 500
3000 K STREET NW
WASHINGTON, DC 20007 (US)**

(73) Assignee: **NEC CORPORATION**

(21) Appl. No.: **10/608,555**

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(30) **Foreign Application Priority Data**

Jun. 28, 2002 (JP) 2002-190110

In a portable communication terminal 10 which is capable of communicating with an information terminal 20 between different kinds of networks, the portable communication terminal 10 includes a plurality of radio communication sections 11, 21 which carry out data communications, respectively in respective service areas of the different kinds of networks, data communication control sections 12, 22 which control the data communications of a plurality of radio communication sections 11, 21 by their own first control commands of respective radio communication sections 11, 21, and a command conversion section 13 which carries out conversion of the first control commands used by the data communication control sections 12, 22 and a second control command used for a communication with the information terminal 20.

